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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/890,646	08/02/2001	Shinichi Ayabe	JKM-001	5225	
20374	7590 08/17/2004		EXAM	EXAMINER	
KUBOVCIK & KUBOVCIK			KALLIS, RUSSELL		
SUITE 710 900 17TH STI	REET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006			1638	1638	
			DATE MAILED: 08/17/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Advisory Action	09/890,646	AYABE ET AL.	
Advisory Action	Examiner	Art Unit	
	Russell Kallis	1638	
The MAILING DATE of this communication appe	ears on the cover sheet with the c	correspondence address	
THE REPLY FILED 05 August 2004 FAILS TO PLACE Therefore, further action by the applicant is required to average final rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appea Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this applicate) a timely filed amendment which	ation. A proper reply to a h places the application i	ı n
PERIOD FOR RE	EPLY [check either a) or b)]		
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of (2) as set forth in (b) above, if checked. Any reply received by the Office timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.17(a) is calculated from: (1) the expiration date of (2) as set forth in (b) above, if checked. Any reply received by the Office timely filed, may reduce any earned patent term adjustment.	Advisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF The date on which the petition under 37 CFI extension and the corresponding amount the shortened statutory period for reply the later than three months after the mail	g date of the final rejection. HE FINAL REJECTION. See N R 1.136(a) and the appropriate ont of the fee. The appropriate originally set in the final Office	MPEP e extension e extension action; or
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF	R 1.191(d)), to avoid dismissal o		
2. The proposed amendment(s) will not be entered be	ecause:		
(a) $oxed{oxed}$ they raise new issues that would require furthe	er consideration and/or search (s	see NOTE below);	
(b) they raise the issue of new matter (see Note b	elow);		
(c) they are not deemed to place the application in issues for appeal; and/or	n better form for appeal by mate	rially reducing or simplify	ing the
(d) (d) they present additional claims without canceli	ng a corresponding number of fi	inally rejected claims.	
NOTE: See Continuation Sheet.			
3. Applicant's reply has overcome the following reject	ion(s): <u>New Matter</u> .		
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	eparate, timely filed amer	ndment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: See		dered but does NOT plac	ce the
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY to	o issues which were new	Ίy
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we			า
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: <u>35,39 and 47-54</u> .			
Claim(s) withdrawn from consideration:			
8. The drawing correction filed on 8/02/01 and 7/20/04	$\frac{4}{2}$ is a) \boxtimes approved or b) \square disa	approved by the Examine	er.
9. Note the attached Information Disclosure Statemer			
10. Other:	, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Continuation Sheet (PTOL-303)

Continuation of 2. NOTE: Newly filed claims 47-51, drawn to a polynucleotide encoding the amino acid of SEQ ID NO: 2, a variant thereof, a polynucleotide complementary thereto, or a polynucleotide complementary to SEQ ID NO: 1, raise new issues of 112 1st paragraph written description and enablement. The variants of SEQ ID NO: 2 or the complementary strands of SEQ ID NO: 1 of unspecified length, or the complementary strands of the polynucleotides encoding SEQ ID NO: 2, either of full length or of unspecified length, as claimed are not described, and therefore do not meet the written description requirement under 35 U.S.C. 112 1st paragraph. Further, a method for producing 2-hydroxyisoflavone synthase using a complementary polynucleotide, either in its' entirety or of some length other than full length, rather than using the coding strand would not encode a 2-hydroxyisoflavone synthase, and therefore is not enabled under 35 U.S.C. 112 1st paragraph. Furthermore, since Applicant has not described the variants of SEQ ID NO: 2, Applicant has not taught how to make those variants of SEQ ID NO: 2 that would encode a 2-hydroxyisoflavone synthase without resorting to undue trial and error experimentation.

Continuation of 5, does NOT place the application in condition for allowance because: Although Applicant has cancelled all but Claims 35 and 39 from the previous office action, Claims 35 and 39 remain rejected under 35 U.S.C. 112 1st paragraph for reasons of record and for reasons addressed supra. Further, Claim 39 remains rejected under 35 U.S.C. 102(b) for reasons of record. The method does not state that the host cells are trasgenic or that the protein produced is recombinant, and thus the claim reads upon the culturing of untransformed cells of Glycyyhiza that contain SEQ ID NO: 1 and the crude extract that comprises the 2-hydroxyisflavone of SEQ ID NO: 2.

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